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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,000	07/06/2001	Heiner Jurs	089306-000000US	5128
20350	7590 10/19/2004		EXAM	INER
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR			TRAN, THUY V	
			ART UNIT	PAPER NUMBER
	SAN FRANCISCO, CA 94111-3834		2821	

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

KiB.

,	Application No.	Applicant(s)				
Office Action Commence	09/900,000	JURS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thuy V. Tran	2821				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>amen</u>						
,	·					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E.	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5-8,11 and 12</u> is/are rejected.	·_					
7) Claim(s) 3,4,9 and 10 is/are objected to.	alaakian na muluana ank					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner		•				
10)⊠ The drawing(s) filed on <u>06 July 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>08/09/2004</u> .	6) Other:	ωιοπεπρριίσαμοπ (ΕΤΟ•102)				
S. Patent and Trademark Office						

### **DETAILED ACTION**

This is a response to the Applicants' amendment filed on July 6<sup>th</sup>, 2004. In virtue of this amendment, claim 13 has been cancelled (based on the preliminary amendment filed 07/06/2001), and claims 1-12 are currently presented in the instant application.

### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Substitute Specification Accepted

2. The substitute specification submitted on July 6<sup>th</sup>, 2004 has been accepted.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-2, 5-8, and 11-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Clemens (U.S. Patent No. 5,130,532).

With respect to claim 1, Clemens discloses, in Figs. 1-2, a light grid for detecting objects in a monitoring region (see Fig. 1) having a transmitter unit [1] comprising a plurality of light transmitters [7] and a receiver unit [2] comprising a plurality of light receivers [8], respective pairs of light transmitters and light receivers (i.e. [7] and [8], etc.; see Fig. 1) associated with one another and bounding the monitoring region being activated (via control circuits [9, 10]; see Fig. 1) in succession in time in dependence on a synchronization signal (see Fig. 2) transmitted

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between the transmitter unit [1] and the receiver unit [2], characterized in that light guides [26, 28, 29] (see Fig. 1) are provided for the transmission of the synchronization signal (see Fig. 2).

With respect to claim 2, Fig. 1 of Clemens shows that the light guide [26] is arranged outside the monitoring region.

With respect to claim 5, Clemens discloses that permitted object sizes and/or movements of an object located in the monitoring region is learned by a control unit (see col. 3, lines 35-39).

With respect to claim 6, Clemens discloses, in Figs. 1-2, a detecting light grid and a corresponding method for detecting objects in a monitoring region (see Fig. 1), in which light signals are transmitted from a transmitter unit [1] comprising a plurality of light transmitters [7] to a receiver unit [2] comprising a plurality of light receivers [8], with respective pairs of light transmitters and light receivers associated with one another and bounding the monitoring region being activated in succession in time (via timing circuit part [21]; see Fig. 4) in dependence on a synchronization signal (see Fig. 2) transmitted between the transmitter unit [1] and the receiver unit [2], characterized in that the synchronization signal is transmitted during operation from the transmitter unit [1] to the receiver unit [2] via changing pairs of light transmitters [7] and light receivers [8] associated with one another.

With respect to claim 7, Figs. 1 and 2 of Clemens show that when the transmission of the synchronization signal between a first pair of light transmitter [7] and light receiver [8] is interrupted or if such an interruption is due, a transmission of the synchronization signal takes place between a second pair of light transmitter and light receiver.

With respect to claim 8, Fig. 1 of Clemens shows that a first pair consists of the first light transmitter [7] of the transmitter unit [1] and the respective first light receiver [8] of the

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receiver unit [2]; and/or that a second pair consists of the other last light transmitter [7] of the transmitter unit [1] and the other respective last light receiver [8] of the receiver unit [2].

With respect to claim 11, Fig. 1 of Clemens shows that the transmission of the synchronization signal takes place in dependence on a fixed or determined direction of object entry into the monitoring region via a first or a second pair of light transmitter and light receiver.

With respect to claim 12, Clemens discloses, in Figs. 1-2, a light grid for detecting objects in a monitoring region (see Fig. 1) having a transmitter unit [1] comprising a plurality of light transmitters [7] and a receiver unit [2] comprising a plurality of light receivers [8] in which respective pairs of light transmitters and light receivers associated with one another and bounding the monitoring region are activated in succession in time in dependence on a synchronization signal transmitted between the transmitter unit [1] and the receiver unit [2] (see Fig. 2), characterized in that a control unit [9, 10] (see Fig. 1) is provided for the transmission of the synchronization signal from the transmitter unit [1] to the receiver unit [2] via changing pairs of light transmitters [7] and light receivers [8] associated with one another.

### Allowable Subject Matter

- 5. Claims 3-4 and 9-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:
  Prior art fails to disclose or fairly suggest:
  - A light grid for detecting objects characterized in that the light guide connects the first or last light transmitter of the transmitter unit to the first or last light receiver of

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the receiver unit respectively, in combination with the remaining claimed limitations as called for in claim 3 (claim 4 would be allowable since it is dependent on claim 3);

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• A method for operating a light grid to detect objects in a monitoring region characterized in that a switch or alarm signal is only emitted when a predetermined minimum number of light receivers adjacent one another do not report any receition and an object located in the monitoring region thus exceeds a predetermined minimum size, in combination with the remaining claimed limitations as called for in claim 9 (claim 10 would be allowable since it is dependent on claim 9).

#### Remarks and conclusion

7. Applicant's arguments with respect to claims 1, 6, and 12 have been considered but are most in view of the new ground(s) of rejection.

Prior art of record to Clemens discloses all the limitations claimed in claims 1-2, 5-8, and 11-12. Therefore, these claims are rejected as being anticipated by Clemens (see Claims Rejections under 35 U.S.C. § 102 above for details).

Claims 3-4 and 9-10 are deemed allowable since the limitations claimed in claims 3 and 9 are not taught by Clemens or by any combination of prior art of record (see Allowable Subject Matter above for details).

### Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thuy V. Tran
Primary Examiner
Art Unit 2821

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10/17/2004